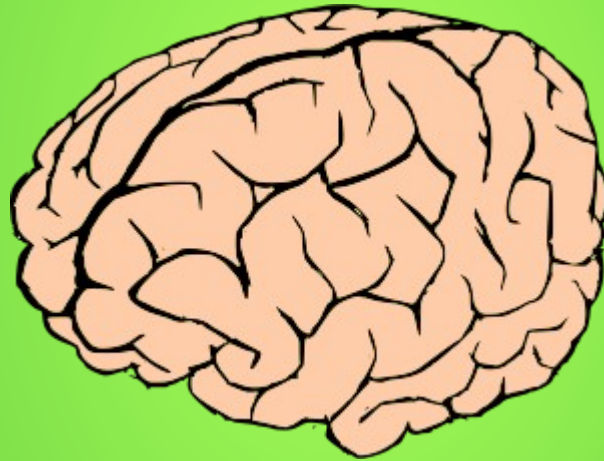


# CHIRP

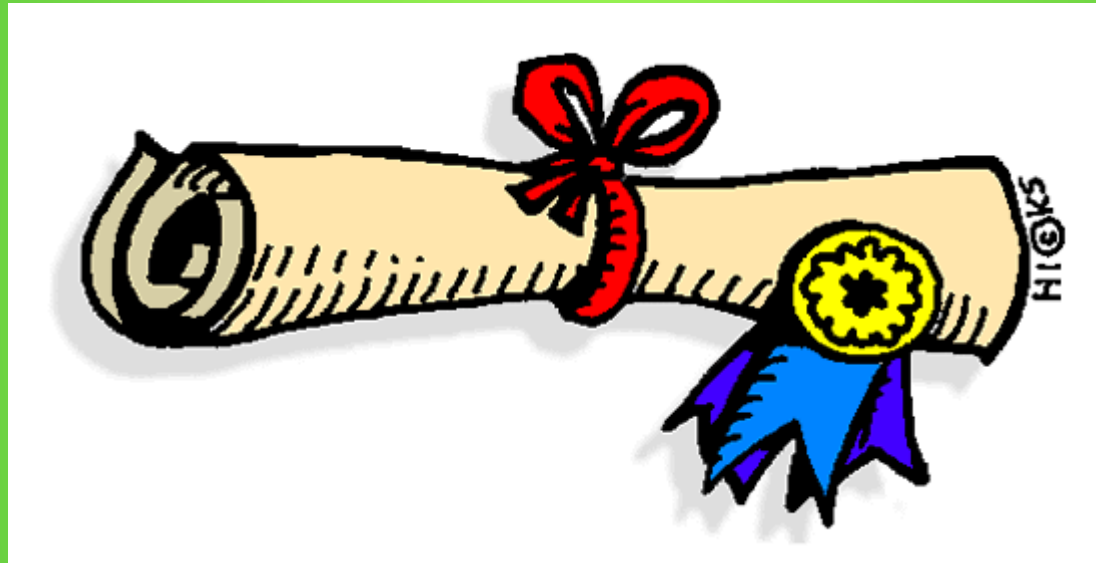
## Digital Radio Programming Made Easy

Creede Lambard  
Mercury Northwest  
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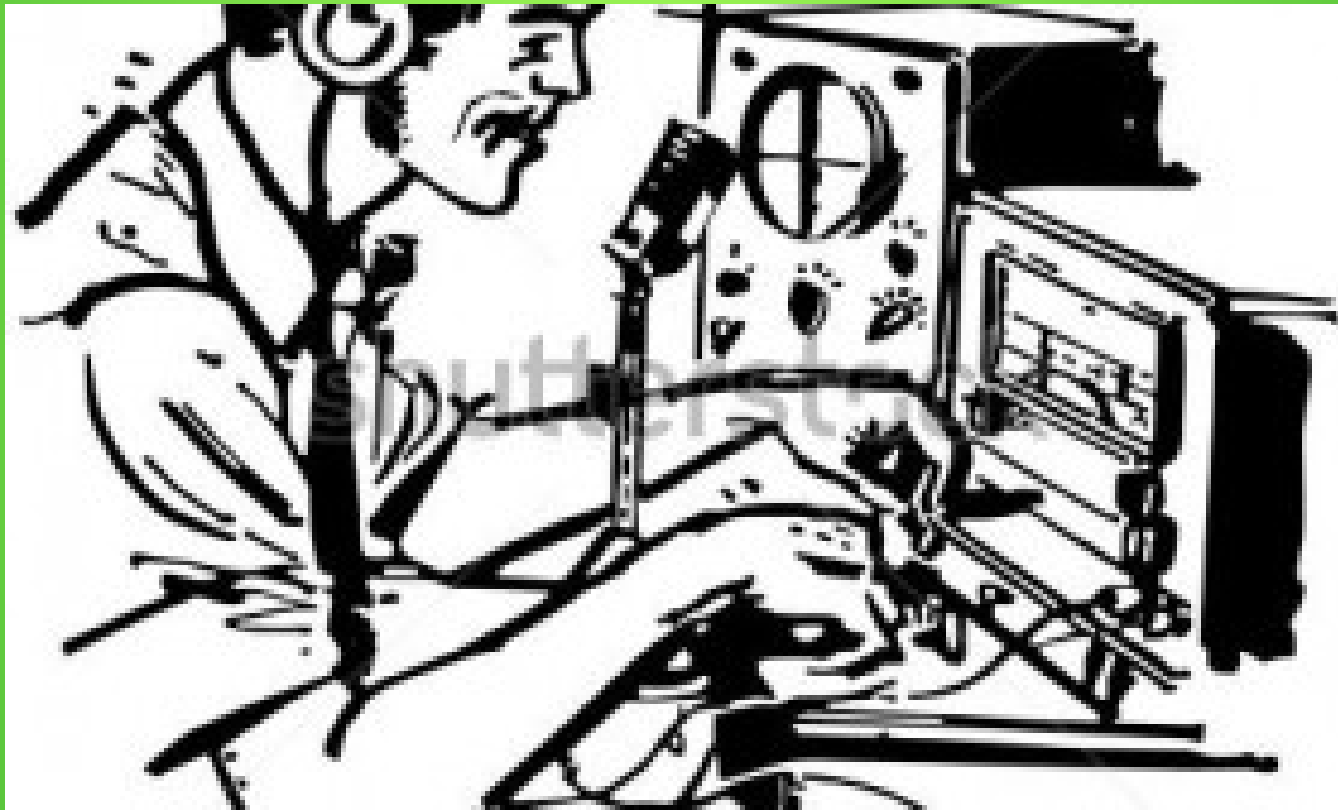
# You have an IQ of 150 . . .



# a Ph.D. in Electrical Engineering from MIT . . .



you've been an Extra Class ham for  
over 30 years . . .



# AND YOU STILL CAN'T FIGURE OUT HOW TO PROGRAM YOUR HANDHELD!!



62

Hint: It's not you, it's the handheld

# Manufacturer-supplied software

- Works fine
- Can cost extra \$\$\$\$
- User interface can be confusing
- Some programs default to non-English
- May only work with one radio or family of radios

# Manufacturer-supplied software

- And . . . you need a cable



# Suppose you have two radios . . .

- What then?

# Chirp to the rescue!!

# Chirp to the rescue!!

- Created by Dan Smith, KK7DS
- Cross-platform
  - Works on Windows, Mac and Linux
  - (no iOS or Android version yet, though)
- Well-supported
- Easy to use
- Works with many radio models

# Some of the radios Chirp supports:

# How to get Chirp

- Go to <http://chirp.danplanet.com>
- Check the list of radios – is yours supported?
  - All of the big four are supported
  - Several Chinese brands including Baofeng
- Take a look at the documentation and FAQ
- Click on the “Get It!” button

# Installing Chirp

- Windows
  - Scroll down to “Windows Installer”
  - Click the link to download & install
- Mac
  - Scroll down to “Mac OS X”
  - Download “chirp-0.3.1.app.zip”
  - Open the archive and put the app in a folder of your choice
- Linux
  - Packages for Fedora and Debian/Ubuntu
  - Source tarball for the truly adventurous

# Connecting your radio to the computer

- You need a serial adapter cable
- USB or RS-232 adapter on one side, usually mic/speaker connectors on the other
- Make sure your cable is correct for your radio

# WARNING! Driver cable problems may be ahead!

- If your cable says it has a Prolific chip, make sure it's not a knockoff
- FTDI chips (to my knowledge) and RS-232 adapters are not affected
- Of course there's a story behind this . . .



# Using the software

# Using the software

- Starting out

# Using the software

- Getting data from your radio

# Using the software

- The table view

# Using the software

- Export to CVS
- Edit in Excel
- Import back into Chirp

# Using the software

- Using a “stock config”

# Using the software

- Save to an IMG file
- Reload the IMG file

# Using the software

- Share data between radios
  - First radio
    - Save data as IMG file
    - Export data to CVS format
  - Second radio
    - Open IMG file
    - Load data from CVS format
    - Upload to radio



# Resources

- Chirp home page @ [chirp.danplanet.com](http://chirp.danplanet.com)
- Chirp mailing list -  
[http://intrepid.danplanet.com/mailman/listinfo/chirp\\_users](http://intrepid.danplanet.com/mailman/listinfo/chirp_users)
- Chirp users – including me!

# Questions?

# Thank you!

- The PPT deck will be available at <http://www.lambard.net/radio/chirp.ppt>
- Contact me: [creede@gmail.com](mailto:creede@gmail.com) *or* [wa7kpk@arrl.net](mailto:wa7kpk@arrl.net)